

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00677_10 ~ SP6ES-20L35K-DX-AR6WES-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00677_10
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 7/27/2018
[UPDATE] 10/8/2018
[LUMCAT] SP6ES-20L35K-DX-AR6WES-MW
[LUMINAIRE] Nom. 6.0" Aperture, LED Wall Wash
[OTHER] Matte white trim, open aperture
[OTHER] Peened 'kicker' reflector
[OTHER] Any flange finish
[LAMP] N/A
[LAMPCAT] N/A, 3500K CCT
[OTHER] Fully regressed lensed, light emitting surface
[OTHER] Total Luminaire Watts is approximate
[OTHER] CCT Output Multipliers: 4000K X 1.03, 3000K X 0.985
[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1685
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.02
Spacing Criterion (Diagonal)	0.98
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00677_10 ~ SP6ES-20L35K-DX-AR6WES-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	48312	28386	13066
55	48503	18955	10542
65	36816	12279	9312
75	21560	8660	7338
85	8471	3466	3045

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00677_10 ~ SP6ES-20L35K-DX-AR6WES-MW.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	1219.302	1219.302	1219.302	1219.302	1219.302	1219.302	1219.302	1219.302	1219.302	1219.302
2.5	1224.500	1219.572	1219.680	1215.723	1210.112	1215.084	1214.394	1205.727	1226.430	1217.623
5.0	1222.645	1217.181	1215.629	1204.678	1199.684	1207.983	1204.491	1197.104	1207.953	1208.004
7.5	1221.031	1217.133	1208.273	1188.923	1184.317	1194.417	1180.532	1158.938	1170.677	1171.575
10.0	1219.584	1213.280	1200.503	1171.095	1165.519	1176.362	1145.669	1117.081	1106.283	1126.047
12.5	1211.737	1203.681	1185.139	1152.138	1137.915	1148.796	1095.729	1043.761	1020.132	1050.438
15.0	1200.247	1189.992	1169.288	1122.432	1105.221	1115.816	1034.021	968.292	921.166	967.181
17.5	1184.631	1171.282	1139.863	1087.998	1063.792	1069.807	959.062	865.087	813.852	863.926
20.0	1167.112	1149.798	1109.938	1047.236	1018.335	1017.789	873.194	761.066	699.615	756.887
22.5	1146.505	1125.457	1072.381	1004.268	964.058	952.607	777.157	647.270	581.634	642.151
25.0	1124.785	1087.488	1031.995	937.436	906.603	882.681	681.882	534.557	472.025	526.479
27.5	1078.485	1038.063	960.985	864.348	819.891	793.411	587.194	434.127	366.009	428.003
30.0	1025.343	973.781	887.045	764.433	724.862	698.755	497.553	337.813	290.964	330.579
32.5	956.828	899.192	793.174	659.251	617.823	599.088	411.066	269.494	226.217	266.938
35.0	885.150	821.207	699.015	546.195	508.315	498.390	334.706	209.028	196.722	205.371
37.5	810.800	741.290	603.540	432.131	405.392	406.491	263.589	184.614	176.369	185.698
40.0	736.086	669.609	512.296	334.500	303.397	315.792	213.587	163.650	165.156	166.946
42.5	679.216	601.657	435.255	237.970	234.669	248.075	172.226	154.748	155.624	158.264
45.0	623.746	560.523	366.484	191.433	168.692	182.257	151.960	145.826	147.269	149.341
47.5	597.623	529.039	319.725	146.971	149.535	157.103	138.344	136.850	139.053	138.816
50.0	572.125	501.686	275.116	136.242	131.765	133.376	128.811	127.725	129.123	128.532
52.5	540.838	475.482	235.000	125.493	121.009	123.555	120.276	118.289	119.082	119.335
55.0	507.960	428.746	198.511	114.531	110.405	113.791	111.469	108.939	109.133	110.362
57.5	453.478	377.901	168.172	103.609	101.863	104.823	102.617	99.738	99.174	102.141
60.0	398.613	322.582	140.181	92.973	93.071	95.695	93.409	90.999	88.914	93.146
62.5	340.920	266.654	115.458	82.395	82.437	85.388	84.165	82.905	78.761	82.116
65.0	284.090	218.520	94.746	72.091	71.857	75.272	73.538	73.660	69.753	71.686
67.5	231.097	171.333	78.452	61.854	61.528	66.002	62.935	63.149	60.864	62.437
70.0	181.263	131.922	63.992	51.798	51.798	56.538	53.791	53.478	52.484	53.162
72.5	137.466	96.624	50.671	42.546	43.217	46.702	44.683	44.336	43.921	43.857
75.0	101.885	70.491	40.922	34.035	34.676	38.690	35.651	37.348	35.127	35.867
77.5	72.004	51.049	31.096	26.152	26.242	30.851	27.632	29.021	27.005	27.693
80.0	49.299	34.414	21.035	17.820	18.134	20.611	19.172	19.057	18.610	18.580
82.5	31.118	19.699	12.738	9.958	11.275	11.374	10.762	11.975	10.753	12.048
85.0	13.480	8.632	5.516	4.606	4.846	7.361	5.845	5.879	5.355	5.409
87.5	2.796	2.382	1.828	1.571	1.592	2.297	1.952	2.046	2.540	2.348
90.0	0.523	0.818	0.412	0.752	0.717	0.444	1.114	0.341	0.753	0.380

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1219.302	1219.302	1219.302	1219.302	1219.302	1219.302	1219.302
2.5	1222.215	1218.520	1215.780	1216.544	1213.250	1211.612	1224.500
5.0	1217.148	1210.707	1208.694	1207.748	1208.493	1210.130	1222.645
7.5	1195.402	1198.605	1194.807	1191.997	1201.321	1207.412	1221.031
10.0	1165.420	1182.171	1175.246	1171.814	1193.235	1202.630	1219.584
12.5	1111.506	1155.676	1151.133	1148.074	1181.732	1191.851	1211.737
15.0	1049.298	1120.892	1120.855	1118.621	1169.223	1177.805	1200.247
17.5	968.025	1074.839	1086.562	1085.448	1143.166	1156.376	1184.631
20.0	880.307	1021.131	1045.552	1045.027	1114.126	1134.399	1167.112
22.5	780.635	957.408	1001.023	1000.750	1074.484	1111.407	1146.505

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00677_10 ~ SP6ES-20L35K-DX-AR6WES-MW.IES****CANDELA TABULATION - (Cont.)**

25.0	682.257	888.115	941.117	938.059	1033.261	1077.470	1124.785
27.5	585.811	801.178	874.615	867.470	959.448	1027.183	1078.485
30.0	493.796	706.435	779.153	771.145	882.562	964.757	1025.343
32.5	407.239	607.876	674.064	666.266	784.999	887.595	956.828
35.0	330.166	507.979	564.384	555.516	686.717	808.655	885.150
37.5	262.756	416.300	453.538	443.244	591.198	727.903	810.800
40.0	211.889	326.837	355.698	345.348	496.589	653.563	736.086
42.5	174.779	257.567	260.248	250.093	416.546	584.554	679.216
45.0	152.543	192.194	204.679	200.282	340.094	539.594	623.746
47.5	140.662	163.071	153.767	155.775	292.847	510.891	597.623
50.0	130.873	138.806	139.341	140.599	247.536	484.380	572.125
52.5	122.259	127.694	127.136	127.326	212.379	459.102	540.838
55.0	112.653	117.533	118.674	115.318	178.790	415.061	507.960
57.5	102.603	107.740	110.094	103.408	151.332	362.627	453.478
60.0	92.636	97.957	97.782	93.543	126.099	309.717	398.613
62.5	82.698	88.313	85.858	83.728	107.390	256.641	340.920
65.0	73.218	78.701	77.964	74.459	90.246	208.617	284.090
67.5	63.862	69.402	69.495	65.114	76.496	161.956	231.097
70.0	54.212	59.687	58.568	55.449	63.604	126.924	181.263
72.5	44.860	48.836	49.017	45.666	51.700	94.898	137.466
75.0	36.897	40.633	41.162	35.738	41.604	70.627	101.885
77.5	29.560	33.567	32.057	28.880	31.918	51.628	72.004
80.0	21.800	23.541	24.010	20.483	22.135	35.924	49.299
82.5	12.844	16.089	17.008	11.573	14.771	21.675	31.118
85.0	6.614	8.032	9.383	5.936	5.832	9.285	13.480
87.5	2.535	3.525	3.303	2.334	2.455	2.646	2.796
90.0	0.980	0.773	0.862	0.669	0.574	0.533	0.523

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00677_10 ~ SP6ES-20L35K-DX-AR6WES-MW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	420.52	N.A.	25.00
0-30	811.11	N.A.	48.10
0-40	1138.31	N.A.	67.60
0-60	1519.38	N.A.	90.20
0-80	1675.05	N.A.	99.40
0-90	1684.97	N.A.	100.00
10-90	1570.81	N.A.	93.20
20-40	717.78	N.A.	42.60
20-50	933.62	N.A.	55.40
40-70	487.45	N.A.	28.90
60-80	155.67	N.A.	9.20
70-80	49.29	N.A.	2.90
80-90	9.91	N.A.	0.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1684.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	114.16
10-20	306.37
20-30	390.59
30-40	327.20
40-50	215.84
50-60	165.23
60-70	106.38
70-80	49.29
80-90	9.91
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00677_10 ~ SP6ES-20L35K-DX-AR6WES-MW.IES

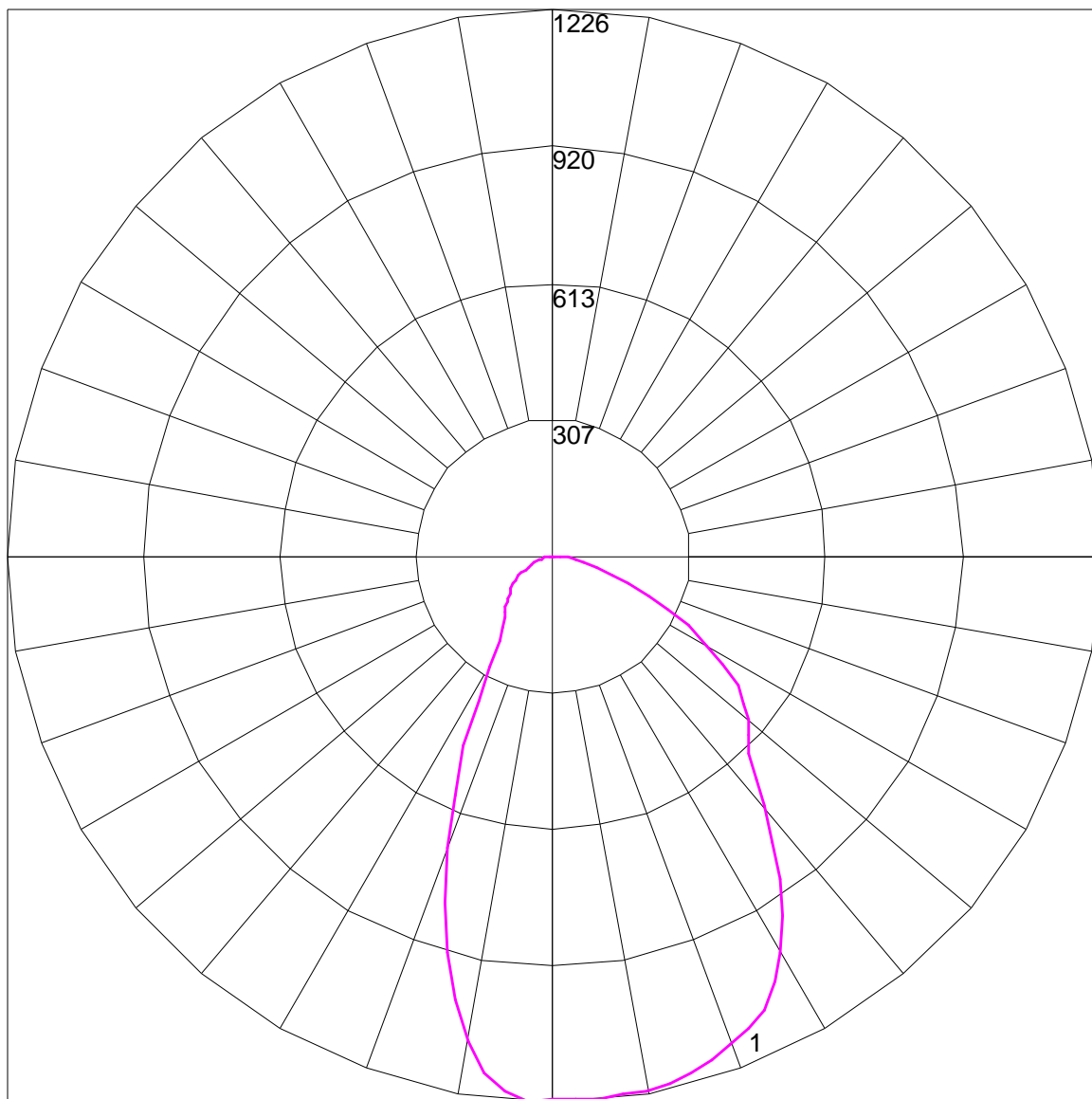
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56
6	79	67	60	55	77	67	59	54	65	59	54	63	58	53	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	52	49	47
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00677_10 ~ SP6ES-20L35K-DX-AR6WES-MW.IES

POLAR GRAPH



Maximum Candela = 1226.43 Located At Horizontal Angle = 180, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)